

Title (en)
WRITEABLE OPTICAL RECORD CARRIER

Title (de)
BESCHREIBBARER OPTISCHER AUFZEICHNUNGSTRÄGER

Title (fr)
SUPPORT D'ENREGISTREMENT OPTIQUE INSCRIPTIBLE

Publication
EP 1579436 A1 20050928 (EN)

Application
EP 03772524 A 20031120

Priority
• EP 03772524 A 20031120
• EP 02080393 A 20021219
• IB 0305370 W 20031120

Abstract (en)
[origin: WO2004057593A1] The present invention relates to a writable optical record carrier and a method of writing information on such a writable optical record carrier. The record carrier comprises a substrate carrying a recording stack which recording stack comprises, in this order, a recording layer and an absorption layer. The recording layer is essentially transparent for an incident light beam, and comprises material which changes its optical characteristics when heated. The first absorption layer converts the incident beam to heat thereby indirectly changing the optical characteristics of the recording layer material. The method comprises the steps: positioning a writing unit at a predetermined position, generating the beam by means of the writing unit, at least partially absorbing the beam in the first absorption layer, thereby producing a first spot of heat, conducting the heat towards the recording layer, and thereby locally changing the optical characteristics of the recording layer material.

IPC 1-7
G11B 7/24; **B41J 2/475**

IPC 8 full level
B41J 2/475 (2006.01); **G11B 7/24** (2006.01); **G11B 7/244** (2006.01); **G11B 7/246** (2006.01); **G11B 7/253** (2006.01); **G11B 7/2531** (2013.01); **G11B 7/2533** (2013.01); **G11B 7/2534** (2013.01); **G11B 7/254** (2006.01); **G11B 7/257** (2006.01); **G11B 7/2578** (2013.01)

CPC (source: EP KR US)
G11B 7/0045 (2013.01 - KR); **G11B 7/244** (2013.01 - EP US); **G11B 7/246** (2013.01 - KR); **G11B 7/2578** (2013.01 - KR); **G11B 7/246** (2013.01 - EP US); **G11B 7/2531** (2013.01 - EP US); **G11B 7/2533** (2013.01 - EP US); **G11B 7/2534** (2013.01 - EP US); **G11B 7/254** (2013.01 - EP US); **G11B 7/2578** (2013.01 - EP US)

Citation (search report)
See references of WO 2004057593A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004057593 A1 20040708; AU 2003280153 A1 20040714; CN 1729524 A 20060201; EP 1579436 A1 20050928; JP 2006511013 A 20060330; KR 20050095590 A 20050929; TW 200421311 A 20041016; TW I292908 B 20080121; US 2006210757 A1 20060921

DOCDB simple family (application)
IB 0305370 W 20031120; AU 2003280153 A 20031120; CN 200380106843 A 20031120; EP 03772524 A 20031120; JP 2004561752 A 20031120; KR 20057011532 A 20050620; TW 92135550 A 20031216; US 53936105 A 20050615